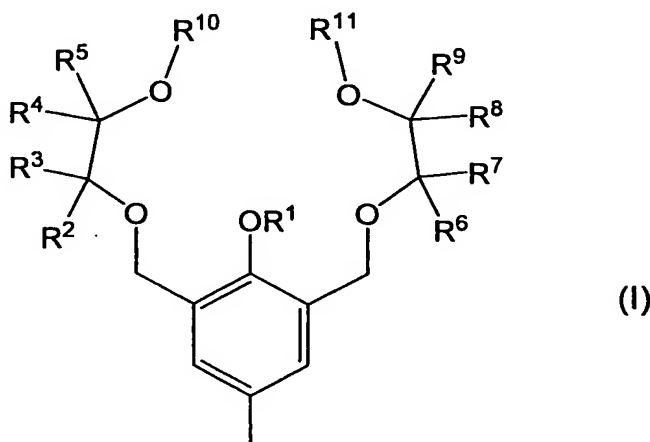


**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

Claim 1 (currently amended): A fluorescent molecular wire comprising a ~~fluorescent~~ polymer main chain having a linked conjugated system to which an optically active substituent is linked so as to be conjugatable form, the optically active substituent being represented by the following formula (I):



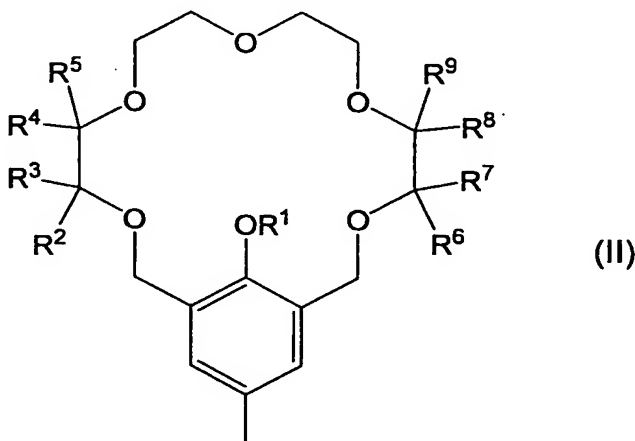
where R<sup>1</sup> represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms; R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, and R<sup>9</sup> represent independently a hydrogen atom, a linear alkyl group having 1 to 30 carbon atoms that may have a substituent, a branched alkyl group having 2 to 30 carbon atoms that may have a substituent, a cyclic alkyl group having 3 to 30 carbon atoms that may have a substituent, an aryl group having 6 to 30 carbon atoms that may have a substituent, or an aralkyl group having 7 to 30 carbon atoms that may have a substituent, and R<sup>3</sup> and R<sup>7</sup> may be bonded respectively to R<sup>4</sup> and R<sup>8</sup> to form an alkylene group having 2 to 60 carbon atoms that may have a substituent; and R<sup>10</sup> and R<sup>11</sup> represent independently a hydrogen atom or an alkyl group having 1 to 15 carbon atoms that may have a heteroatom, and R<sup>10</sup> and R<sup>11</sup> may be bonded to form an alkylene group having 2 to 30 carbon atoms that may have a heteroatom.

Claim 2 (currently amended): The fluorescent molecular wire of claim 1, wherein the polymer main chain having a linked conjugated system is a polyarylene structure, a poly(arylene ethynylene) structure, or a poly(arylene vinylene) structure, ~~preferably, a polyphenylene structure, a polythiophene structure, a poly(phenylene thiophenylene) structure, a poly(phenylene ethynylene) structure, a poly(thiophenylene ethynylene) structure, or a poly(phenylene vinylene) structure.~~

Claim 3 (new): The fluorescent molecular wire of claim 1, wherein the polymer main chain having a linked conjugated system is a polyphenylene structure, a polythiophene structure, a poly(phenylene thiophenylene) structure, a poly(phenylene ethynylene) structure, a poly(thiophenylene ethynylene) structure, or a poly(phenylene vinylene) structure.

Claim 34 (currently amended): The fluorescent molecular wire of ~~claim~~ any one of claims 1 or 2 to 3, wherein the optically active substituent is coupled to the polymer main chain having a linked conjugated system via mono- or poly-arylene, mono- or poly-alkylene, mono- or poly-vinylene, or a combination thereof.

Claim 45 (currently amended): The fluorescent molecular wire of any one of claims 1 to 3 4, wherein the optically active substituent is represented by the following formula (II):

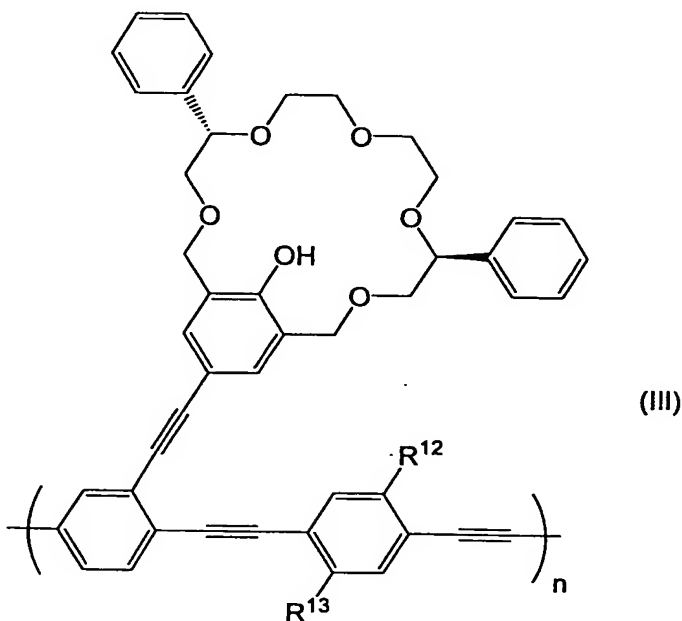


where R<sup>1</sup> represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms; and R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, and R<sup>9</sup> represent independently a hydrogen atom, a linear alkyl group having 1 to 30 carbon atoms that may have a substituent, a branched alkyl group having 2 to 30 carbon

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atoms that may have a substituent, a cyclic alkyl group having 3 to 30 carbon atoms that may have a substituent, an aryl group having 6 to 30 carbon atoms that may have a substituent, or an aralkyl group having 7 to 30 carbon atoms that may have a substituent, and  $R^3$  and  $R^7$  may be bonded respectively to  $R^4$  and  $R^8$  to form an alkylene group having 2 to 60 carbon atoms that may have a substituent.

Claim 56 (currently amended): The fluorescent molecular wire of claim 45, which is represented by the following formula (III):



where  $R^{12}$  and  $R^{13}$  represent independently a hydrogen atom, an alkyl group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, a di- or mono-alkylamide group having 1 to 20 carbon atoms, or an alkyl ester group having 1 to 20 carbon atoms; and  $n$  is an integer of 5 or more.

Claim 67 (currently amended): A chiral sensor comprising the fluorescent molecular wire of any one of claims 1 to 56.